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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN RE APPLICATION OF: HANIN et al.
SERIAL NO: 10/786,098
FILING DATE: February 26, 2004
FOR: HEAT EXCHANGE DEVICE

GAU: 3753
EXAMINER: Unassigned



INFORMATION DISCLOSURE STATEMENT UNDER 37 CFR 1.97

COMMISSIONER FOR PATENTS
P.O. BOX 1450
ARLINGTON, VA 22313-1450

SIR:

Applicant(s) wish to disclose the following information.

REFERENCES

- ☒ The applicant(s) wish to make of record the references listed on the attached form PTO-1449. Copies of the listed references are attached, where required, as are either statements of relevancy or any readily available English translations of pertinent portions of any non-English language references.
- ☐ A check is attached in the amount required under 37 CFR §1.17(p).

RELATED CASES

- ☐ Attached is a copy of applicant's pending application(s) or issued patent(s) which may be related to the present application. These documents are listed on form PTO-1449, also attached.
- ☐ A check is attached in the amount required under 37 CFR §1.17(p).

CERTIFICATION

- ☐ Each item of information contained in this information disclosure statement was cited for the first time in any communication from a foreign patent office in any counterpart foreign application not more than three months prior to the filing of this statement.
- ☐ No item of information contained in this information disclosure statement was cited for the first time in any communication from a foreign patent office in a counterpart foreign application or, to the knowledge of the undersigned, having made reasonable inquiry, was known to any individual designated in 37 CFR §1.56(c) more than three months prior to the filing of this statement.
- ☐ This Information Disclosure Statement is being filed within three months of the filing date of the subject patent application.
- ☒ This Information Disclosure Statement is being filed before the mailing date of a first Office Action on the merits.

PETITION

- ☐ Applicant(s) hereby request consideration of the attached information. A check is attached in the amount of the Petition fee required under 37 CFR §1.17(i)(1).

DEPOSIT ACCOUNT

- ☒ Please charge any additional fees for the papers being filed herewith and for which no check is enclosed herewith, or credit any overpayment to deposit account number **23-2185**. A duplicate copy of this sheet is enclosed.

Respectfully Submitted,

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ATTY. DOCKET NO.

116686-00271

SERIAL NO.

10/786,098

**LIST OF REFERENCES
CITED BY APPLICANT**

APPLICANT Leonid Hanin et al.

FILING DATE

February 26, 2004

GROUP

3753

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOC. NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
	AA	5,660,230	08/26/97	Obosu et al.			
	AB	6,015,008	01/18/00	Kogure et al.			
	AC	5,229,643	07/20/93	Ohta et al.			
	AD	4,923,002	05/08/90	Hausmann			
	AE	5,077,601	12/31/91	Hatada et al.			
	AF	4,935,864	06/19/90	Schmidt et al.			
	AG	3,645,330	02/29/72	Albright et al.			
	AH	6,538,892	03/25/03	Smalc			
	AI	6,161,610	12/19/00	Azar			
	AJ	5,628,362	05/13/97	Rew et al.			
	AK	5,955,781	09/21/99	Joshi et al.			
	AL	5,729,988	03/24/98	Tchernev			
	AM	2002/0074114	06/20/02	Fijas			
	AN	4,669,685	06/02/87	Dalby			

FOREIGN PATENT DOCUMENTS

		DOC. NUMBER	DATE	COUNTRY	TRANSLATION	
					YES	NO
	AO				<input type="checkbox"/>	<input type="checkbox"/> (N/A)
	AP				<input type="checkbox"/>	<input type="checkbox"/> (N/A)
	AQ				<input type="checkbox"/>	<input type="checkbox"/> (N/A)
	AR				<input type="checkbox"/>	<input type="checkbox"/> (N/A)
	AS				<input type="checkbox"/>	<input type="checkbox"/> (N/A)
	AT				<input type="checkbox"/>	<input type="checkbox"/>

OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, etc.)

AU	S.K. Hati, S.S. Rao, Transactions ASME, Journal of Vibration, Acoustics, Stress, and Reliability in Design, Determination of Optimum Profile of One-Dimensional Cooling Fins, July 1983, Vol. 105, pgs. 317-320
AV	C.J. Maday, Transactions of the ASME, Journal of Engineering for Industry, The Minimum Weight One-Dimensional Straight Cooling Fin, February 1974, pgs. 161-165
AW	L. Hanin, A. Campo, International Journal of Heat and Mass Transfer, Vol. 46, 2003, pgs. 5145-5152
AX	R.J. Duffin, Journal of Mathematics and Mechanics, A Variational Problem Relating to Cooling Fins, Vol. 8, No. 1, 1959, pgs. 47-56
AY	S. Graff et al., Heat Transfer Engineering, Mathematical Analysis of the Length-of-Arc Assumption, Vol. 17, No. 2, 1996, pgs. 67-71
AZ	D.R. Harper, III et al., Report No. 158, Mathematical Equations for Heat Conduction in the Fins of Air-Cooled Engines, pgs. 679-708

Examiner

Date Considered

*Examiner: Initial if reference is considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.